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Inventor: HANAMURA TEIZOU; others: 02

Applicant: SUMITOMO KAGAKU KOGYO

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- international: B29F3/03

- european:

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PURPOSE: To efficiently separate and remove a volatile component from a polymerization reaction product, by using a devolatilization extruder which is constituted such that a rotor is built in a stator, and a gap formed with the two parts is brought to a vacuum or a pressurized condition.

CONSTITUTION: A polymer composition containing a volatile component, such as unreacted monomers, solvents, is introduced in a gap part 6, which is formed by an inner surface 3 of a stator and an outer surface 7 of a rotor 8 and is held under a vacuum state of about 5 Torr or a pressurizing state of about 2 atmosphere, in a devolatilization extruder through an inlet 1 and a pore 5 (a numeral 4 is a needle valve, and 2 is a stator). A volatile matter separated by a gap part 6 is led out for collection through an outlet 12 for volatile matter formed in an outer peripheral direction of a rotation surface, meanwhile, a polymer composition is conveyed to the right upper of a drawing by a discharge force produced as a result of the rotation of the rotor 8, and is removed from an outlet 14 of an extruder die 13.

